## WHAT IS CLAIMED IS:

1	1. A burner with a plurality of fingers comprising:
2	a burner head having fingers corresponding in number to said plurality
3	and having a peripheral wall with a second plurality of ports positioned along the
4	peripheral wall of each one of said plurality of fingers;
5	a cap having an overlapping fingers corresponding in number to said
6	plurality of fingers and having a lip extending laterally beyond the peripheral wall
7	a plurality of flame vents connecting adjacent ports along said
8	peripheral wall.
1	2. The invention as defined in claim 1 wherein each vent
2	comprises a recess, formed in at least one of said cap and said peripheral wall,
3	positioned intermediate adjacent ports.
1	3. The invention as defined in claim 2 wherein said recess
2	includes an expanded transfer area at an intermediate point between said adjacent
3	ports.
1	4. The invention as defined in claim 2 wherein said recess is
2	formed in said cap and bounded by a protruding lip.
1	5. The invention as defined in claim 4 wherein said lip comprises
2	a continuous wall along each said finger.
1	6. The invention as defined in claim 5 wherein said lip is
2	scalloped.
1	7. A burner for a cooktop comprising:
2	a base for mounting said burner in a cooktop;
3	at least one upper member defining at least in part a plurality of ports;
4	a collar carried by said base;
5	a stem carried by said at least one upper member.

12

said head.

6	an indexer carried by at least one of said collar and said stem limiting
7	insertion of said stem to at least one predetermined alignment, whereby said indexer
8	aligns said at least one upper member in a said at least one predetermined alignment
9	with said base.
1	8. The invention as defined in claim 7 wherein said indexer
2	comprises a spline.
1	9. The invention as defined in claim 8 wherein said indexer
2	comprises a plurality of splines.
1	10. The invention as defined in claim 7 wherein said base includes
2	an ignitor element and wherein said predetermined alignment positions said ignitor
3	element adjacent one of said ports.
1	11. The invention as defined in claim 7 wherein said at least one
2	member comprises a burner head having a plurality of fingers with a peripheral wall
3	enclosing a gas path and including a plurality of port openings.
1	12. A cooktop burner comprising:
2	a body having a plurality of fingers extending outwardly from a
3	central body portion, said body comprising:
4	a burner head having a central wall, and a peripheral wall on the
5	central wall including a plurality of openings forming ports;
6	a base including a head support for said head, and a support for an
7	ignitor, said head support including a first indexer for limiting insertion of said head
8	to at least one predetermined alignment with respect to said ignitor support; and
9	a burner cap including a covering wall positioned over said peripheral
10	wall, a support for carrying said cap on said head, said support including a second
11	indexer limiting insertion of said cap to a predetermined alignment with respect to

- 1 13. The invention as described in claim 12 wherein at least one of said indexers includes a spline.
- 1 14. The invention as described in claim 13 wherein said at least
- 2 one indexer comprises a plurality of splines.